



CLINICAL CGT IMMUNE MONITORING AND IMMUNOBIOLOGY WORKSHOP

Tuesday, May 5, 2026 • ISCT 2026 Dublin, Ireland

COURSE OVERVIEW

This one-day, expert-led, interactive, case-studies-based workshop is designed for clinicians, scientists, process development teams, laboratory leaders, and medical trainees committed to advancing CGT patient care. Choose the track that aligns with your role:

Track 1 -Technical & Translational

Built for process development and translational scientists. Explore fit-for-purpose assay selection, biomarker integration, workflow optimization, and practical strategies to implement standardized immune monitoring across research and clinical settings.

Track 2 - Clinical Application

Designed for clinicians and clinical researchers. Learn novel immune monitoring strategies, implement robust biomarkers to support patient outcome prediction and follow-up, and translate immune data into actionable clinical decision-making.

DELIVERY METHOD

 In-person interactive course

 1-day training
Tuesday, May 5, 2026

 Hosted in the ISCT 2026 Annual Meeting at:
Spencer Dock, N Wall Quay,
North Wall, Dublin 1, D01 T1W6, Ireland

KEY LEARNING TOPICS INCLUDE:

- Explain the importance of immune monitoring in optimizing clinical outcomes and supporting treatment decisions
- Identify and interpret biomarkers to track immune responses and predict patient outcomes
- Evaluate strategies to standardize immune monitoring workflows for improved consistency and data comparability across clinical sites
- Apply translational immunotechnology and best practices for implementing immune monitoring in research and process development
- Select clinically relevant immune monitoring parameters for CAR-T and MSC therapies
- Interpret multi-center data, understand sources of variability, and implement approaches for consistent results



*ISCT is an ASCP Continuing Medical Laboratory Education (CMLE)-approved provider.
This course consists of 6 CMLE credits.*



Scan this QR code to learn more and register

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08:30-09:00

Check-In, Registration and Coffee

09:00 – 09:10

Welcome and Introduction

Keynote Session

09:10 - 09:40

Speakers: **Rosa Bacchetta, MD**

Professor of Pediatrics

Stanford Maternal & Child Health Research Institute

California, USA

Plenary Session

Lymphodepletion and Immune Reconstitution after Immune-Effector Cells/CAR-T Therapy

09:40 - 10:40

Speakers: **Jan Joseph Melenhorst, PhD**

Director, Cell Therapy and Immuno-Engineering Program (CTIP), Cleveland Clinic Research, Ohio, USA

The Impact of Lymphodepletion on Antigen Presentation

Speakers: **Shira Sagie, MD, PhD, MPH**

Oncology Department, Jusidman Cancer Center, Sheba Medical Center, Israel

Postdoctoral fellow, Weizmann Institute, Israel

10:40 - 11:00

Interactive Panel Discussion

11:00 - 11:15

BREAK

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Track 1: Technical Focused

How to Build and Run an Effective Immune Monitoring Program

Chair: **Elani Wiest, PhD**

Staff Scientist - Process Development, Center for Regenerative Biotherapeutics
Mayo Clinic Jacksonville
Florida, USA

11:15 - 11:35 Novel Technical Development Immune System Profiling

Speaker: **Carolyn Shasha, PhD**
Data Scientist
Fred Hutchinson Cancer Center
Seattle, USA

11:35 - 11:55 Implementing an Immune Monitoring Program: From Sample Collection to Batching

Speaker: **Allan Dietz, PhD**
Professor of Laboratory Medicine and Pathology
Mayo Clinic Rochester
Minnesota, USA

11:55 - 12:15 Interpreting Immune Monitoring Data: Linking Biomarkers to Clinical Response

Speaker: **Enrico Velardi, PhD**
Principal Investigator, Immune Regeneration and Experimental Hematology Laboratory Bambino Gesù Children's Hospital.
Italy

Track 2: Clinical Focused

Immune Effector Cells (IEC) and CAR-T Cell Therapies: Mechanisms, Monitoring and Clinical Impact

Chairs: **Jaap Boelens, MD, PhD**

Chief Pediatric-Oncologist, Transplantation and Cellular Therapies Memorial Sloan Kettering Cancer Center
New York, USA, and

Stefan Nierkens, PhD

Associate Professor, Tumor Immunology, Medical Immunologist
UMC Utrecht and Princess Máxima Center for Pediatric Oncology
Utrecht, the Netherlands

11:15 - 11:35 Determinants of CAR-T Efficacy: Immune Effector Cell Function, Persistence, and the Tumor Immune Milieu

Speaker: **Juidith Wienke, PhD**
Research Group Leader, Immunotherapy for Solid Tumors,
Princess Máxima Center for Pediatric Oncology,
Utrecht, the Netherlands

11:35 - 11:55 Immune Reconstitution After CAR T-Cell Therapy in Autoimmune Diseases and Beyond

Speaker: **Simon Völk, PD, MHBA**
Department of Medicine 5 - Hematology & Internal Oncology, University Hospital Erlangen, Germany

Immune Effector Cell Therapies Beyond B- Cell Cancers: Lessons from AML CAR-T Trials

Speaker: **Kevin Curran, MD**
Associate Attending Pediatrician
Memorial Sloan Kettering Cancer Center
New York, USA

12:15-12:35 Interactive Panel Discussion

12:35-14:00 LUNCH

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Advanced Technologies in Immune Monitoring

Chairs: **Elani Wiest, PhD**

Staff Scientist - Process Development, Center for Regenerative

Biotherapeutics Mayo Clinic Jacksonville, Florida, USA, and

Stefan Nierkens, PhD

Associate Professor, Tumor Immunology, Medical Immunologist

UMC Utrecht and Princess Máxima Center for Pediatric Oncology Utrecht, the Netherlands

Immune Reconstitution After Transplant: Do We Really Know What's Happening?

Chair: **Jaap Boelens, MD, PhD**

Chief Pediatric-Oncologist, Transplantation and Cellular Therapies

Memorial Sloan Kettering Cancer Center

New York, USA

14:00 - 14:20 Multi-Omics & Proteomics Immune Monitoring in Solid Tumors

Speaker: **Stefan Nierkens, PhD** Associate Professor, Tumor Immunology, Medical Immunologist UMC Utrecht and Princess Máxima Center for Pediatric Oncology Utrecht, the Netherlands

14:20 - 14:40 Metabolic Conditioning of CAR-T Cells: From Ex Vivo Optimization to In Vivo Persistence

Speaker: **Roddy O'Connor, BSc, MS, PhD** Research Assistant Professor of Pathology and Laboratory Medicine, Perelman School of Medicine, University of Pennsylvania Pennsylvania, USA

14:40 - 15:00 Single-Cell Functional Profiling Using High-Throughput Platforms

Speaker: **Anthony Zamora, PhD** Associate Professor Department of Internal Medicine Division of Malignant Hematology/Cellular Therapy and Transplantation University of California, Davis, USA

14:00 - 14:20 Do We Really Understand Post-Transplant Immune Recovery? The Role of Lymphoid Tissue Regeneration

Speaker: **Leena Babiker, PhD Candidate** Cancer Immunology & Immunotherapy, Perelman School of Medicine, University of Pennsylvania Pennsylvania, USA

14:20 - 14:40 Immune and GvHD- Tolerance (Long Term)

Speaker: **Enrico Velardi, PhD** Principal Investigator, Immune Regeneration and Experimental Hematology Laboratory Bambino Gesù Children's Hospital Italy

14:40 - 15:00 The Reconstituted Immune System as a Driver of Leukemia Control

Speaker: **Alexandre Troullioud Lucas, MD, PhD** Assistant Attending Physician Memorial Sloan Kettering Cancer Center New York, USA

15:00 - 15:15

BREAK

Closing Remarks

15:15 - 15:45 The Future of Spectral Flow Cytometry in Immunomonitoring in cell therapies

Speakers: **Juan Flores-Montero MD, PhD**

Postdoctoral Researcher, Cancer Research Center. Department of Hematology, University Hospital of Salamanca, Spain

15:45 - 16:00

Wrap Up

17:00 - 18:00

Networking Reception

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Planning Committee



Jaap Boelens, MD, PhD
ISCT Regional Vice-President, North America
Memorial Sloan Kettering Cancer Center
New York, USA



Stefan Nierkens, PhD
Associate Professor, Tumor Immunology, Medical
Immunologist UMC Utrecht and Princess Máxima
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Elani Wiest, PhD
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